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**EUROPEAN PATENT APPLICATION**

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Remarks:

THE COMPLETE DOCUMENT INCLUDING  
REFERENCE TABLES AND THE SEQUENCE  
LISTING IS AVAILABLE ON CD-ROM FROM THE  
EUROPEAN PATENT OFFICE, VIENNA  
SUB-OFFICE.

(54) **Expressed sequence tags and encoded human proteins**

(57) The sequences of 5' ESTs derived from mRNAs encoding secreted proteins are disclosed. The 5' ESTs may be to obtain cDNAs and genomic DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome

mapping procedures. Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design expression vectors and secretion vectors.

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## EUROPEAN SEARCH REPORT

Application Number  
EP 00 20 0610

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	DATABASE EMBL SEQUENCE LIBRARY [Online] CIT Approved human genomic sperm library D 16 September 1998 (1998-09-16), MAHAIRAS GG ET AL.: XP002269781 retrieved from A0165256 accession no. WWW.EBI.EC.UK nucleotides 145-341 are identical with nucleotides 139-326 in SEQ ID NO:3792 -----	2,3,12, 18-43, 47-58	C12N15/12 C07K14/47 C07K16/18 G06F17/30
X	DATABASE EMBL SEQUENCE LIBRARY [Online] 6 July 1989 (1989-07-06), MITCHELL ET AL.: "Human ornithine-oxo-acid transferase" XP002259581 retrieved from M23204 accession no. WWW.EBI.AC.UK nucleotides 1-335 are identical with nucleotides 57-391 in SEQ IN NO:24 -----	2,3,12, 18-43, 47-58	
A	ADAMS M D ET AL: "3,400 NEW EXPRESSED SEQUENCE TAGS IDENTIFY DIVERSITY OF TRANSCRIPTS IN HUMAN BRAIN" NATURE GENETICS, vol. 4, no. 3, July 1993 (1993-07), pages 256-267, XP000611495 * the whole document *	1-4,12, 18-43, 47-58	TECHNICAL FIELDS SEARCHED (Int.Cl.7)  C12N C07K C12Q A61K
A	WO 97/07198 A (GENETICS INSTITUT) 27 February 1997 (1997-02-27)  * the whole document *	1-4,12, 18-43, 47-58	
A	WO 97/04097 A (GENETICS INST) 6 February 1997 (1997-02-06)  * the whole document *	1-4,12, 18-43, 47-58	
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 10 February 2004	Examiner Cupido, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 (03.82) (P04C01)



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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 20 0610

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	JACOBS K ET AL: "A NOVEL METHOD FOR ISOLATING EUKARYOTIC CDNA CLONES ENCODING SECRETED PROTEINS" JOURNAL OF CELLULAR BIOCHEMISTRY - SUPPLEMENT, vol. 21A, 10 March 1995 (1995-03-10), page 19, XP002027246 * abstract *	1-4,12, 18-43, 47-58	
A	US 5 536 637 A (JACOBS KENNETH) 16 July 1996 (1996-07-16) * the whole document *	1-4,12, 18-43, 47-58	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
-The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 10 February 2004	Examiner Cupido, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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Application Number  
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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:  
1-60
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number

EP 00 20 0610

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

**Invention 1: Claims 1-4,7,12,18-43,47-58 (all partially)**

A purified nucleic acid sequence related to SEQ ID NO: 24,  
methods of preparation, the encoded polypeptide, antibodies  
thereto, computer systems having stored SEQ ID NO: 24.

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**Inventions 2-28579 Claims 1-60 (all partially)**

As invention 1 but limited to SEQ ID NO: 25-4100 and SEQ ID  
NO:8178-36681 respectively.

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 20 0610

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-02-2004

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82